

CLAIMS

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1. A wheel retractable mechanism for roller skate,
provided to each of multiple wheel sets provided under
5 a sole of each boot is essentially comprised of:
a casing, fixed in an accommodation chamber provided
in the sole of the boot for the wheel set being related
to the primary mechanical structure for the boot,
coupled to the retractable mechanism, and an opening
10 to permit retraction by the wheel set being provided
to the casing at where in relation to the sole of the
boot;
a bracket related to a structure to be inserted into
the casing being provided with a base plate to be inserted
15 into the opening of the casing, both sides of the base
plate being each provided with a side panel for the
insertion of an axle of the wheel set, a pivot being
each provided externally to both side panels and a
positioning part being each provided on both sides of
20 the pivot;
two slide tracks penetrating through an inner wall where
the interior of the casing meets the pivots of the
bracket respectively having their bottoms provided each
with a limiting groove, each limiting groove being
25 pivoted to the pivot of the bracket to constitute a
coupling between the bracket and the casing while
allowing the bracket to fully extend out of the casing
on the slide track, and a stop being provided each on
the top of both slide tracks to prevent the slide tracks
30 from sliding out of the casing;

a retainer being provided on the wall of the casing in relation to the positioning part of the bracket to restrict mutually with the positioning part of the bracket for fixing the relative locations between the bracket and the casing; and

5 a push button coupled to the retainer to release the bracket from the retainer once the push button being pressed; characterized by that:

the wheel retractable mechanism allows the bracket to

10 be easily pulled out of the casing by simply pressing the push button for an active shift between having the bracket to face in the direction of the sole of the boot with the base plate or the wheel set before the bracket being pushed into the casing for the retainer

15 and the positioning part of the bracket to be mutually restricted thus to fix both of the bracket and the casing in position, and the wheel set being either concealed or exposed depending on the use status.

2. A wheel retractable mechanism for roller skate as

20 claimed in Claim 1, wherein, a coil is provided at where between the slide tracks and the casing to eject the bracket out of the casing once the bracket is released from the restriction by the retainer once the push button is pressed.

25 3. A wheel retractable mechanism for roller skate as claimed in Claim 1, wherein, the press button is coupled to the retainer by means of a linkage.

4. A wheel retractable mechanism for roller skate as

30 claimed in Claim 1, wherein, the press button being coupled to the retainer by means of a linkage is provided

with a coil to push the retainer towards the positioning part of the bracket.

5. A wheel retractable mechanism for roller skate as claimed in Claim 1, wherein, the positioning part
5 relates to a positioning hole and the retainer relates to a pin.

6. A wheel retractable mechanism for roller skate as claimed in Claim 1, wherein, multiple positioning parts
10 are respectively provided on both sides of a pivot of the bracket to regulate the location of the bracket in the casing.

7. A wheel retractable mechanism for roller skate as claimed in Claim 1, wherein, both side panels of the
15 bracket are made in a pattern to match that of the sole of the boot.

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